



Marine & Offshore

Certificate number: 73471/A0 BV

File number: MAT 97596-2022

Product code: 90071

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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APPROVAL CERTIFICATE for MATERIALS

This certificate is issued to

Hunan Valin Lianyuan Steel Co., Ltd.

Loudi, Hunan - CHINA

for the type of product

HIGHER STRENGTH HULL STEEL ROLLED PRODUCTS

Hot rolled coils and plates in steel grades AH32, DH32, AH36 and DH36

Requirements:

Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 21 Oct 2027

For Bureau Veritas Marine & Offshore,

At BV SHANGHAI, on 21 Oct 2022,

Jennifer Zhang

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Hot rolled strips, coils and plates from coils.

Steel grade	Deoxydation practice & Refining	Delivery conditions
AH32-DH32 AH36-DH36	Killed and fine grain treated with Al+Ti+Nb	Thermo-mechanical Rolling (TM) up to 20mm

Steelmaking by Basic oxygen furnace (BOF) and LF furnace. Continuous casting.

2. DOCUMENTS AND DRAWINGS :

2.1-Documents issued by Hunan Valin Lianyuan Iron & Steel Co., Ltd:
- "Technical documentation for initial approval" dated September 2022.

3. TEST REPORTS :

3.1-Documents issued by Hunan Valin Lianyuan Iron & Steel Co., Ltd:
- "Test report for initial approval" dated August 2022.
- Welding test report No 20220829 dated August 2022.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel strips, coils and plates are to be supplied by Hunan Valin Lianyuan Iron & Steel Co., Ltd in compliance with the type and the requirements described in this certificate.
5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.
5.3 - BV product certificate is required.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

Nil.

*** END OF CERTIFICATE ***